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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10.058,414 | 01.30.2002 | Darin Denton | 031220-202 | 4746 |

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EXAMINER

MOHANDESI, IRAJ A

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 05/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/058,414

Applicant(s)

DENTON ET AL.

Examiner

Iraj A Mohandesi

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) 01 February 2003 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21-22-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1-21, 23, 24** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Lipman US patent 4,949,022** in view of **H.L. Smith US patent 2,413,525**.
Lipman'022 discloses a brushless motor (column 1 line 6), comprising a rotor (40 column 3 line 44), a hollow hub (46, 48, column 3, line 52, 53), and plurality of magnet poles (52 column 3 line 61), the hollow hub having at least one aperture at each end to form at least one first passage extending through the hollow hub (Fig. 2, 4 opening at the left side and opening at the right side, the passage there between), the rotor having vanes fixed to the hollow hub to force air through the hollow hub (Fig. 2, 3), wherein the vanes are located in the at least one passage (Fig. 2), the vanes are located at the at least one aperture (Fig. 2, 4), wherein the vanes are arranged to drive air in the same direction, a stator surrounding the rotor (54, 72 Fig. 4, 6), an outer casing (12 column 3, line 6), the electromechanical device is a brushless machine (column 1 line 6), wherein at least one second passage extends through the stator (76, 74, column 5, line 56, 57).

Lipman'022 discloses a brush less motor (column 1 line 6),comprising a rotor (40 column 3 line 44) ,a hollow hub (46,48, column 3, line 52,53), and plurality of magnet poles (52 column 3 line 61), the hollow hub having at least one aperture at each end to form at least one first passage extending through the hollow hub(Fig. 2 , 4 opening at the left side and opening at the right side , the passage there between),the rotor having vanes fixed to the hollow hub to force air through the hollow hub (Fig. 2.,3), wherein the vanes are located in the at least one passage (Fig.2), the vanes are located at the at least one aperture (Fig.2,4), wherein the vanes are arranged to drive air in the same direction, a stator surrounding the rotor (54 , 72 Fig. 4,6), an outer casing (12 column 3, line 6),the electromechanical device is a brush less machine (column1 line 6), wherein at least one second passage extend through the stator (76 ,74, column 5, line 6). However **Lipman'022** fails to teach a sealed casing around the rotor so that coolant (air) flows in a closed sealed casing.

H.L Smith US'525 disclosed a totally disclosed electrical machine having a sealed casing around the rotor (column 1 line 1-4) for the purpose of keeping the coolant in a closed area.

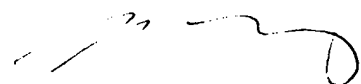
Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was mad to combine **Lipman'022** motor with a sealed casing us taught by **H.L Smith'525** for the purpose of sealing the cooling area.

Communication

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

A handwritten signature in black ink, appearing to be a stylized 'D' or similar character, located below the text of the communication section.

IM May 14, 2003